

# INSTRUCTION SHEET

**Buell**  
AMERICAN MOTORCYCLES

-J02378

Kit Number Z0025.M

REV. 11-15-01

## BUELL DDFI SNORKEL REPLACEMENT KIT

### General

This kit is designed for replacing the Snorkel on 1999 and later X1, S3 and S3T Model Motorcycles.

#### NOTE

The small plastic plug included in this kit is not necessary for X1 (Lightning) models, For X1 models, discard plug.

#### Kit Contents

| Qty | Description               | Part Number |
|-----|---------------------------|-------------|
| 1   | Snorkel                   |             |
| 1   | Plug, backplate (plastic) | Z0025.M     |

### Air Cleaner Removal

#### WARNING

To protect against shock and accidental start-up of vehicle, disconnect the negative battery cable, before proceeding. Inadequate safety precautions could result in death or serious injury.

1. Unthread bolt and disconnect the negative (-) battery cable from the negative terminal.
2. **X1 Models-** Remove two screws and washers from front and one bolt and washer from back of air cleaner cover. Save screws, bolt and washers for installation.

**S3 and S3T-** See Figure 1 and perform the following:

- a. Remove both front screws and nylon washers. Save screws and washers for installation.
- b. Remove both rear screws and nylon washers. Save screws and washers for installation.

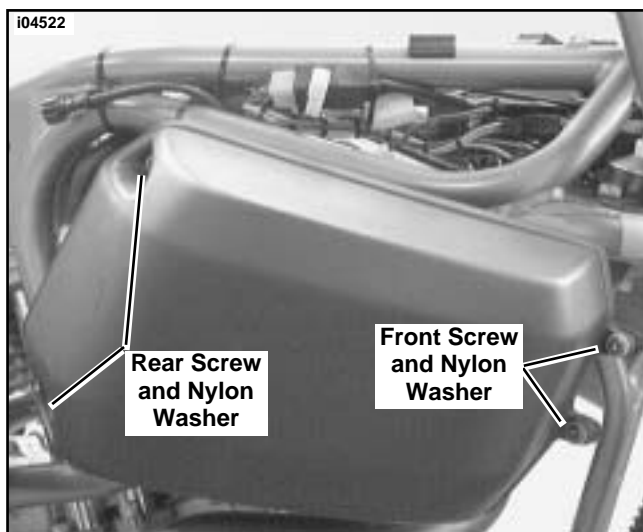


Figure 1. Remove Air Cleaner Cover (Airbox) (S3 and S3T Shown)

3. **X1 Models-** Remove air filter from airbox.

**S3 and S3T Models-** See Figure 2. Remove two bolts and washers from filter box. Slide filter box forward, away from snorkel. Save bolts and washers.

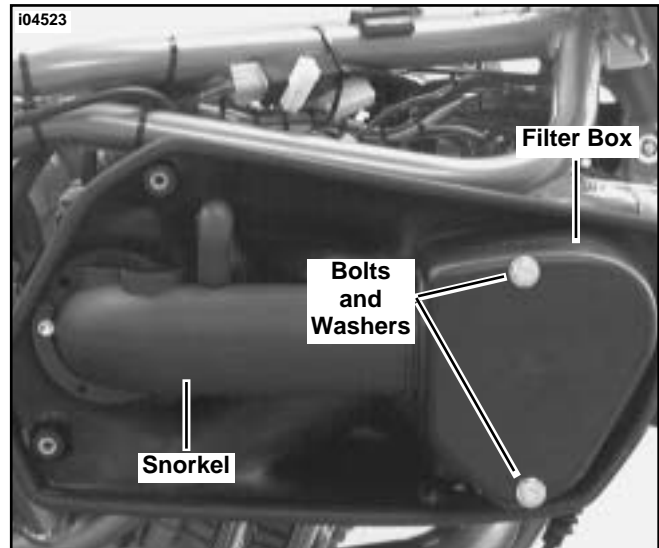


Figure 2. Remove Filter Box (S3 and S3T Shown)

4. See Figure 3. If IAT sensor is present, perform the following and detach IAT sensor from snorkel.
  - a. Press the catch on the intake air temperature sensor.
  - b. While holding catch, remove sensor from the snorkel by pulling upward.
  - c. Carefully remove the IAT grommet from snorkel and save.

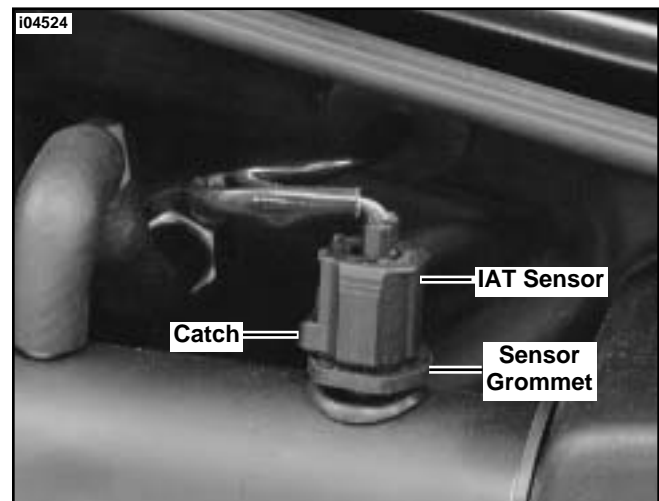


Figure 3. Remove IAT Sensor and Grommet (All)

5. See Figure 4. Detach breather hose from snorkel.

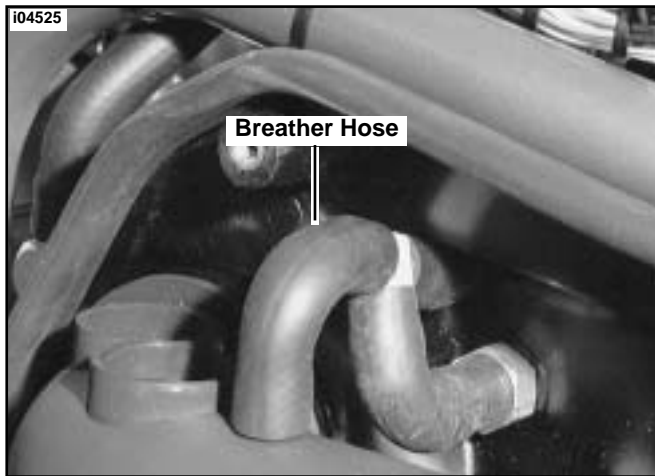


Figure 4. Detach Snorkel Breather (All)

6. See Figure 5. Remove two screws and snorkel plate. Remove snorkel. Save screws and snorkel plate.

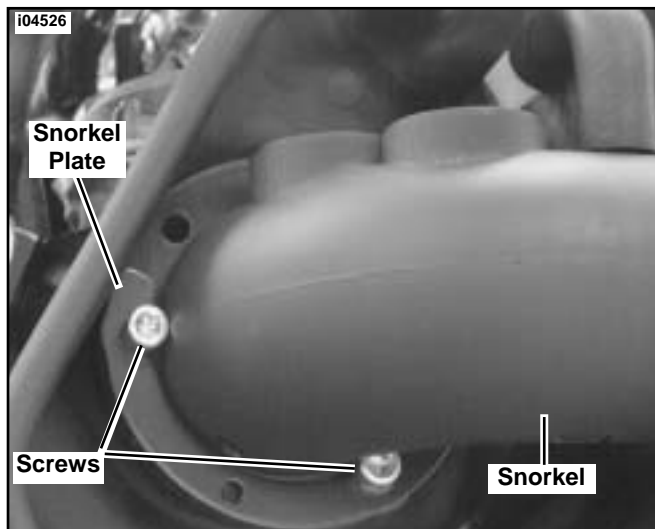


Figure 5. Remove Snorkel Plate and Snorkel (All)

## IMPORTANT NOTES

### NOTE

See Figure 6. On early model S3 and ST3 motorcycles, the carburetor bell was designed with “four” holes. Since the Snorkel provided in this kit is designed with four holes, the “fourth” hole in the backplate must be plugged or air may be sucked in between the snorkel and the backplate. If air is sucked in, unfiltered air will enter carburetor and poor carburetor intake (atmospheric) conditions may result in poor drivability. A plug is provided in kit for plugging (sealing) the backplate prior to installing the snorkel on these early models.

### NOTE

X1 models are equipped with a backplate which covers the “fourth” hole. It is not necessary to install the backplate plug on X1 model motorcycles. Discard plug.

7. **X1 Models**-Proceed to Step 8.

**Early S3 and S3T Models**-Determine if the model in which the snorkel is being replaced should have the plug (from kit) installed to the hole shown in backplate. If the plug is necessary, See Figure 6 and install as shown. If the plug is not necessary, discard plug and install new snorkel beginning with Step 8.

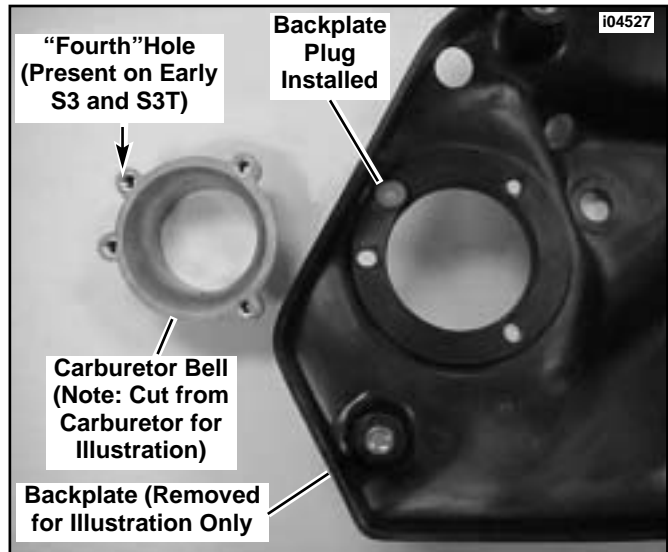


Figure 6. Backplate Plug Installation (Necessary Only on Early S3 and S3T Models)

- Refer to Figure 5. Obtain new Snorkel from kit. Apply LOCTITE 243 to threads of screws saved in Step 6 and align and install snorkel plate and snorkel to backplate. Tighten screws to 6-8 ft-lbs (8.1-10.8 Nm).
- Refer to Figure 4. Attach snorkel breather hose to snorkel.
- Refer to Figure 3. If present, carefully install grommet into place on new snorkel. Insert IAT sensor into grommet.
- X1 Models**- Align and install air filter into airbox.

**S3 and S3T Models**- Refer to Figure 2. Install filter element into air filter box, if removed. Using screws and washers saved in Step 3, fasten filter box to backplate and tighten securely.

- X1 Models**- Install air cleaner cover using two washers and screw to front and one washer and bolt to back of air cleaner cover Tighten securely.

**S3 and S3T Models**-See Figure 1. Install air cleaner cover using both nylon washers and front screws. Install rear screws with nylon washer. Tighten all screws securely.

### ⚠ WARNING

Always connect the positive battery cable first. If the positive cable should contact ground with the negative cable installed, the resulting sparks may cause a battery explosion resulting in death or serious injury.

- Connect negative (-) battery cable to battery negative terminal.